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Xylose isomerase from *Piromyces*

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Propositions

Accompanying the thesis

Xylose isomerase from *Piromyces*: characterization and engineering for improving *S. cerevisiae*-based lignocellulosic bioethanol production

by

Misun Lee

1. Rational and computational enzyme engineering for in vivo applications suffer from insufficient insight in the relationship between biochemical properties and cellular performance of enzymes – this thesis
2. Selection of enzymes for better performance in engineered pathways should be done in vivo to avoid complications caused by the disconnect between in vitro and in vivo behavior.
3. To improve scientific reproducibility and replicability, peer review of scientific manuscripts should pay more attention to a clear and specific description of experimental protocols.
4. Being a PhD student is a privilege and should be treated as such – whining about the difficulties that come with it is complaining at a high level.
5. There is no doubt we can mitigate human-caused climate change once we decide we really want to.
6. People are usually afraid of change because they fear the unknown. But the single greatest constant of history is that everything changes. - Yuval Noah Harari, Homo Deus: A History of Tomorrow
7. Passion is not a prerequisite for pursuing something, it is rather the result of a persistent attitude and diligent practice.